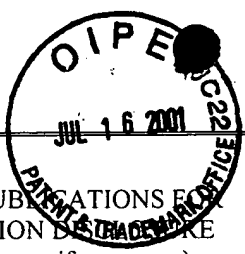


FORM PTO-1449 (Modified)		Attorney Docket No.: 18547-043220US		Application No.: 09/653,761	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant: Michael C. Pirrung et al.			
		Filing Date: September 1, 2000		Group: 1643	
Reference Designation		U.S. PATENT DOCUMENTS			Page 1
Examiner Initial	Document No.	Date	Name	Class	Sub-class
					Filing Date (If Appropriate)
PP AA	4,715,929	12/29/87	Ogawa		
PP AB	4,478,967	10/23/84	Eian et al.		
PP AC	4,477,556	10/16/84	Dueber et al.		
AD					
AE					
AF					
AG					
AH					
AI					
AJ					
AK					
AL					
FOREIGN PATENT DOCUMENTS					
	Document No.	Date	Country	Class	Sub-class
					Translation (Yes/No)
PP AM	0 400 920 A1	12/05/90	Europe EPD		
AN	WO 87/05942	10/08/87	PCT WIPD		
AO	0 233 403 A1	08/26/87	Europe EPD		
AP					
AQ					
AR					
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)					
PP AS	Ronald Frank et al., "Facile and rapid 'spot-synthesis' of large numbers of peptides on membrane sheets", 1991 Proceedings of the 21st European Peptide Symposium, Platja D'Oro, Spain, 2-8 September 1990, Leiden, NL XP002154029 190790				
AT					
AU					
AV					
AW					
EXAMINER		DATE CONSIDERED			

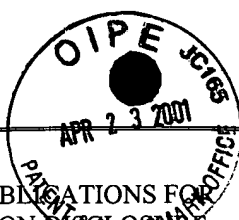
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449 (Modified)		Attorney Docket No.: 18547-043210US		Application No.: 09/653,761	
LIST OF PATENTS AND PUBLICATIONS EXAMINED		Applicant: Fodor et al.			
APPLICANT'S INFORMATION AND STATEMENT (Use several sheets if necessary)		Filing Date: September 1, 2000		Group: Unassigned	
Reference Designation		U.S. PATENT DOCUMENTS			Page 1
Examiner Initial	Document No.	Date	Name	Class	Filing Date (If Appropriate)
RP AA	4,758,727	7/19/88	Tomei et al.	250	458.1
FOREIGN PATENT DOCUMENTS					
	Document No.	Date	Country	Class	Translation (Yes/No)
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)					
RP AB	Ballard et al., "Imaging Genes, Chromosomes and Nuclear Structures Using Laser-Scanning Confocal Microscopy," <i>SPIE, Bioimaging and Two-Dimensional Spectroscopy</i> , 1205:1-10, conference held 1/18-19/90, Los Angeles, CA., abstract also included (1990).				
AC	Burns et al., "Scanning Silt Aperture Confocal Microscopy for Three-Dimensional Imaging," <i>Scanning</i> , 12:156-160 (1990).				
AD	Southern et al., "Parallel synthesis and analysis of large numbers of related chemical compounds: applications to oligonucleotides," <i>J. Biotechnology</i> , 35:217-227 (1994).				
EXAMINER <i>P. Bonnalun</i> DATE CONSIDERED <i>7/31/03</i>					

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FORM PTO-1449 (Modified)

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT (Use several sheets if necessary)

Attorney Docket No.: 18547-043220US

Application No.: 09/053,761

Applicant: Pirrung et al.

Filing Date: September 1, 2000

TECH CENTER 1600/2900
Group: 1643

Reference Designation

U.S. PATENT DOCUMENTS

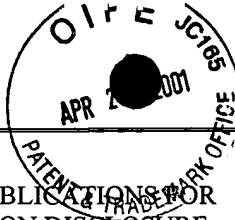
Page 1

Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
PP AA	3,730,844	5/1/73	Gilham et al.	195	103.5 R	8/27/71
AB	3,849,137	11/19/74	Barzynski et al.	96	97	10/5/72
AC	3,862,056	1/21/75	Hartman	252	511	12/20/72
AD	3,939,350	2/17/78	Kronick et al.	250	365	4/29/74
AE	4,072,576	2/7/78	Arwin et al.	195	103.5 R	9/20/76
AF	4,121,222	10/17/78	Diebold et al.	347	7	7/6/77
AG	4,180,739	12/25/79	Abu-Shumays	250	461 R	12/23/77
AH	4,216,245	8/5/80	Johnson	427	2.13	7/25/78
AI	4,238,757	12/9/80	Schenck	357	25	3/19/76
AJ	4,269,933	5/26/81	Pazos	430	291	9/28/79
AK	4,314,821	2/9/82	Rice	23	230 B	7/28/80
AL	4,327,073	4/27/82	Huang	424	1	4/7/80
AM	4,339,528	7/13/82	Goldman	430	323	5/19/81
AN	4,342,905	8/3/82	Fujii et al.	250	201	8/21/80
AO	4,373,071	2/8/83	Itakura	525	375	4/30/81
AP	4,395,486	7/26/83	Wilson et al.	435	6	8/19/81
AQ	4,405,771	9/20/83	Jagur	528	266	10/16/81
AR	4,444,878	4/24/84	Paulus	435	7	12/21/81
AS	4,444,892	4/24/84	Malmros	436	528	5/17/82
AT	4,448,534	5/15/84	Wertz et al.	356	435	10/5/79
AU	4,458,066	7/3/84	Caruthers et al.	536	27	3/24/81
AV	4,483,920	11/20/84	Gillespie et al.	435	6	5/17/82
AW	4,500,707	2/19/85	Caruthers et al.	536	27	3/16/82
AX	4,500,919	2/19/85	Schreiber	358	78	5/4/82
AY	4,516,833	5/14/85	Fusek	350	162.12	12/27/82
AZ	4,517,338	5/14/85	Urdea et al.	525	54.11	7/13/84
BA	4,533,682	8/6/85	Tortorello et al.	523	414	4/29/83
BB	4,537,861	8/27/85	Elings et al.	436	518	2/3/83
BC	4,542,102	9/17/85	Dattagupta et al.	435	6	7/5/83
BD	4,555,490	11/26/85	Merril	436	86	6/8/84
BE	4,556,643	12/3/85	Paau et al.	435	5	2/1/83
BF	4,562,157	12/31/85	Lowe et al.	435	291	5/25/84
BG	4,563,419	1/7/86	Ranki et al.	435	6	12/29/83
BH	4,569,967	2/11/86	Kornreich et al.	525	54.11	10/24/83
BI	4,580,895	4/8/86	Patel	356	39	10/28/83
BJ	4,584,277	4/22/86	Ullman	436	501	4/5/83



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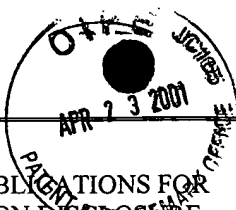
FORM PTO-1449 (Modified)			Attorney Docket No.: 18547-043220US		Application No. 09/653,761	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			Applicant: Pirrung et al.		Filing Date: September 1, 2000	
					TECH-CENTER 1600/2900	
<u> </u> BK	4,588,682	5/13/86	Groet et al.	435	6	12/13/82
<u> </u> BL	4,591,570	5/27/86	Chang	435	7.24	2/2/83
<u> </u> BM	4,598,049	7/1/86	Zelinka et al.	422	116	8/31/83
<u> </u> BN	4,613,566	9/23/86	Potter	435	6	1/23/84
<u> </u> BO	4,624,915	11/25/86	Schindler et al.	435	4	7/14/83
<u> </u> BP	4,626,684	12/2/86	Landa	250	328	7/13/83
<u> </u> BQ	4,631,211	12/23/86	Houghten	428	35	3/25/85
<u> </u> BR	4,637,861	1/20/87	Krull et al.	204	1 T	12/16/85
<u> </u> BS	4,656,127	4/7/87	Mundy	435	6	4/23/84
<u> </u> BT	4,670,380	6/2/87	Dattagupta	435	6	5/23/84
<u> </u> BU	4,677,054	6/30/87	White et al.	435	6	8/8/83
<u> </u> BV	4,681,859	7/21/87	Kramer	436	501	9/21/84
<u> </u> BW	4,683,195	7/28/87	Mullis et al.	435	6	2/7/86
<u> </u> BX	4,683,202	7/28/87	Mullis	435	91	10/25/85
<u> </u> BY	4,689,405	8/25/87	Frank et al.	536	27	1/4/84
<u> </u> BZ	4,704,353	11/3/87	Humphries et al.	435	4	4/27/84
<u> </u> CA	4,711,955	12/8/87	Ward et al.	536	29	5/23/83
<u> </u> CB	4,713,326	12/15/87	Dattagupta et al.	435	6	5/18/84
<u> </u> CC	4,713,347	12/15/87	Mitchell et al.	436	501	1/14/85
<u> </u> CD	4,715,413	12/29/87	Backlund et al.	141	94	10/8/86
<u> </u> CE	4,716,106	12/29/87	Chiswell	435	6	2/28/85
<u> </u> CF	4,719,179	1/12/88	Barany	435	172.1	11/30/84
<u> </u> CG	4,719,615	1/12/88	Feyrer et al.	369	284	3/4/86
<u> </u> CH	4,722,906	2/2/88	Guire	436	501	9/29/82
<u> </u> CI	4,728,502	3/1/88	Hamill	422	116	4/26/85
<u> </u> CJ	4,728,591	3/1/88	Clark et al.	430	5	3/7/86
<u> </u> CK	4,731,325	3/15/88	Palva et al.	435	6	1/24/85
<u> </u> CL	4,737,344	4/12/88	Koizumi et al.	422	100	4/22/87
<u> </u> CM	4,755,458	7/5/88	Rabbani et al.	435	5	8/30/84
<u> </u> CN	4,762,881	8/9/88	Kauer	525	54.11	1/9/87
<u> </u> CO	4,766,062	8/23/88	Diamond et al.	435	6	5/7/84
<u> </u> CP	4,767,700	8/30/88	Wallace	435	6	2/15/85
<u> </u> CQ	4,777,019	10/11/88	Dandekar	422	68	4/11/86
<u> </u> CR	4,780,504	10/25/88	Buendia et al.	525	54.11	6/5/86
<u> </u> CS	4,786,170	11/22/88	Groeblor	356	318	5/13/86
<u> </u> CT	4,786,684	11/22/88	Glass	525	54.1	8/21/86
<u> </u> CU	4,794,150	12/27/88	Steel	525	54.11	3/11/87
<u> </u> CV	4,808,508	2/28/89	Platzer	430	143	7/1/86



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FORM PTO-1449 (Modified)			Attorney Docket No.: 18547-043220US		Application No.: 09/653,761	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			Applicant: Pirrung et al.		Filing Date: September 1, 2000	
					Group 1: 1600/2900	
<input checked="" type="checkbox"/> CW	4,810,869	3/7/89	Yabe et al.	250	201	12/23/87
<input checked="" type="checkbox"/> CX	4,811,062	3/7/89	Tabata et al.	356	152	7/1/88
<input checked="" type="checkbox"/> CY	4,811,218	3/7/89	Hunkapiller et al.	204	461	6/2/86
<input checked="" type="checkbox"/> CZ	4,812,512	3/14/89	Buendia et al.	525	54.11	6/26/86
<input checked="" type="checkbox"/> DA	4,820,630	4/11/89	Taub	435	5	11/23/84
<input checked="" type="checkbox"/> DB	4,822,566	4/18/89	Newman	422	68	5/18/87
<input checked="" type="checkbox"/> DC	4,833,092	5/23/89	Geysen	436	501	12/22/86
<input checked="" type="checkbox"/> DD	4,844,617	7/4/89	Kelderman et al.	356	372	1/20/88
<input checked="" type="checkbox"/> DE	4,846,552	7/11/89	Veldkamp et al.	350	162.2	2/9/88
<input checked="" type="checkbox"/> DF	4,849,513	7/18/89	Smith et al.	536	27	6/24/86
<input checked="" type="checkbox"/> DG	4,855,225	8/8/89	Fung et al.	435	6	2/7/86
<input checked="" type="checkbox"/> DH	4,865,990	9/12/89	Stead et al.	435	803	7/9/87
<input checked="" type="checkbox"/> DI	4,868,103	9/19/89	Stavrianopoulos et al.	435	5	2/19/86
<input checked="" type="checkbox"/> DJ	4,874,500	10/17/89	Madou et al.	204	412	7/15/87
<input checked="" type="checkbox"/> DK	4,877,745	10/31/89	Hayes et al.	436	166	3/14/89
<input checked="" type="checkbox"/> DL	4,886,741	12/12/89	Schwartz	435	5	12/9/87
<input checked="" type="checkbox"/> DM	4,888,278	12/19/89	Singer et al.	435	6	10/13/88
<input checked="" type="checkbox"/> DN	4,921,805	5/1/90	Gebeyehu et al.	435	270	9/29/89
<input checked="" type="checkbox"/> DO	4,923,901	5/8/90	Koester et al.	521	53	9/4/87
<input checked="" type="checkbox"/> DP	4,925,785	5/15/90	Wang et al.	435	6	3/7/86
<input checked="" type="checkbox"/> DQ	4,931,384	6/5/90	Layton et al.	435	7.31	10/17/84
<input checked="" type="checkbox"/> DR	4,946,942	8/7/90	Fuller et al.	530	335	3/11/88
<input checked="" type="checkbox"/> DS	4,965,188	10/23/90	Mullis et al.	435	6	6/17/87
<input checked="" type="checkbox"/> DT	4,973,493	11/27/90	Guire	427	2	10/15/87
<input checked="" type="checkbox"/> DU	4,979,959	12/25/90	Guire	623	66	5/5/89
<input checked="" type="checkbox"/> DV	4,981,783	1/1/91	Augenlicht	435	6	4/16/86
<input checked="" type="checkbox"/> DW	4,981,985	1/1/91	Kaplan et al.	556	50	10/20/87
<input checked="" type="checkbox"/> DX	4,984,100	1/8/91	Takayama et al.	360	49	7/14/89
<input checked="" type="checkbox"/> DY	4,987,065	1/22/91	Stavrianopoulos et al.	435	5	12/2/85
<input checked="" type="checkbox"/> DZ	4,988,617	1/29/91	Landegren et al.	435	6	3/25/88
<input checked="" type="checkbox"/> EA	4,992,383	2/12/91	Farnsworth	436	89	8/5/88
<input checked="" type="checkbox"/> EB	4,994,373	2/19/91	Stavrianopoulos et al.	435	6	7/20/89
<input checked="" type="checkbox"/> EC	5,002,867	3/26/91	Macevicz	435	6	10/24/88
<input checked="" type="checkbox"/> ED	5,006,464	4/9/91	Chu et al.	435	7.1	10/1/87
<input checked="" type="checkbox"/> EE	5,011,770	4/30/91	Kung et al.	435	6	7/24/90
<input checked="" type="checkbox"/> EF	5,013,669	5/7/91	Peters, Jr. et al.	436	518	6/1/88
<input checked="" type="checkbox"/> EG	5,021,550	6/4/91	Zeiger	530	334	9/11/90
<input checked="" type="checkbox"/> EH	5,026,773	6/25/91	Steel	525	54.11	12/5/88



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FORM PTO-1449 (Modified)			Attorney Docket No.: 18547-043220US		Application No.: 09/053,761	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			Applicant: Pirrung et al.		APR 25 2001	
			Filing Date: September 1, 2000		Group: 1643	
					TECH CENTER 1600/2900	
<u>PD</u> EI	5,026,840	6/25/91	Dattagupta et al.	536	27	2/6/90
EJ	5,028,525	7/2/91	Gray et al.	435	6	6/26/90
EK	5,028,545	7/2/91	Soini	436	501	6/9/88
EL	5,037,882	8/6/91	Steel	525	54.11	12/23/88
EM	5,043,265	8/27/91	Tanke et al.	435	6	3/26/87
EN	5,047,524	9/10/91	Andrus et al.	536	27	12/21/88
EO	5,064,754	11/12/91	Mills	435	6	11/13/87
EP	5,077,085	12/31/91	Schnur et al.	427	98	3/6/87
EQ	5,077,210	12/31/91	Eigler et al.	435	176	1/13/89
ER	5,079,600	1/7/92	Schnur et al.	357	4	4/14/88
ES	5,081,584	1/14/92	Omichinski et al.	364	497	3/13/89
ET	5,082,830	1/21/92	Brakel at al.	514	44	2/26/88
EU	5,091,652	2/25/92	Mathies et al.	250	458.1	6/1/90
EV	5,096,807	3/17/92	Leaback	435	6	12/1/89
EW	5,100,626	3/31/92	Levin	422	100	5/24/90
EX	5,100,777	3/31/92	Chang	435	7.24	4/27/87
EY	5,112,962	5/12/92	Letsinger et al.	536	27	11/9/90
✓ EZ	5,141,813	8/25/92	Nelson	428	402	8/28/89
FA	5,143,854	9/1/92	Pirrung et al.	436	518	3/7/90
<u>PD</u> FB	5,149,625	9/22/92	Church et al.	435	6	3/28/90
FC	5,153,319	10/6/92	Caruthers et al.	536	27	3/31/86
FD	5,164,319	11/17/92	Hafeman et al.	435	287.1	11/17/89
FE	5,171,695	12/15/92	Ekins	436	501	2/3/89
FF	5,188,963	2/23/93	Stapleton	435	288.3	11/17/89
FG	5,192,980	3/9/93	Dixon et al.	356	326	6/26/91
FH	5,200,051	4/6/93	Cozzette et al.	204	403	11/7/89
FI	5,202,231	4/13/93	Drmanac et al.	435	6	6/18/91
FJ	5,206,137	4/27/93	Ip et al.	435	6	11/21/91
FK	5,215,882	6/1/93	Bahl et al.	435	6	11/30/89
FL	5,215,889	6/1/93	Schultz	435	41	9/8/89
FM	5,219,726	6/15/93	Evans	435	6	6/2/89
FN	5,225,326	7/6/93	Bresser et al.	435	6	10/28/91
FO	5,232,829	8/3/93	Longiaru et al.	435	6	9/29/89
FP	5,235,028	8/10/93	Barany et al.	528	335	9/16/91
FQ	5,242,974	9/7/93	Holmes	525	54.11	11/22/91
FR	5,252,743	10/12/93	Barrett et al.	548	303.7	11/13/90
✓ FS	5,256,549	10/26/93	Urdea et al.	435	91	4/27/90
✓ FT	5,258,506	11/2/93	Urdea et al.	536	23.1	8/25/89

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FORM PTO-1449 (Modified)

Attorney Docket No.: 18547-043220US

Application No.: 09/653,761

LIST OF PATENTS AND PUBLICATIONS FOR
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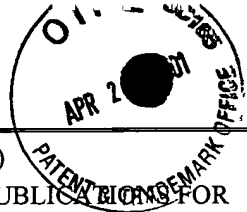
Applicant: Pirrung et al.

TECH CENTER 1600/2900

Filing Date: September 1, 2000

Group: 1643

<u>PD</u> FU	5,306,641	4/26/94	Saccocio	436	85	8/12/91
<u>PP</u> FV	5,310,893	5/10/94	Erlich et al.	536	24.31	5/4/89
<u>PI</u> FW	5,324,633	6/28/94	Fodor et al.	435	6	11/22/91
<u>PP</u> FX	5,328,824	7/12/94	Ward et al.	435	6	12/8/87
<u>PP</u> FY	5,348,855	9/20/94	Dattagupta et al.	435	6	10/4/91
<u>PP</u> FZ	5,384,261	1/24/95	Winkler et al. <i>cited in P10892</i>	436	518	11/22/91
<u>PP</u> GA	5,405,783	4/11/95	Pirrung et al.	436	518	3/12/92
<u>PP</u> GB	5,424,186	6/13/95	Fodor et al.	435	6	12/6/91
<u>PP</u> GC	5,424,188	6/13/95	Schneider et al.	435	6	10/20/92
<u>PP</u> GD	5,432,099	6/11/95	Ekins	436	518	12/1/92
<u>PP</u> GE	5,436,327	7/25/95	Southern et al.	536	25.34	3/20/91
<u>PP</u> GF	5,445,934	8/29/95	Fodor et al.	435	6	9/30/92
<u>PP</u> GG	5,447,841	9/5/95	Gray et al.	435	6	12/14/90
<u>PP</u> GH	5,474,796	12/12/95	Brennan	427	2.13	5/27/93
<u>PP</u> GI	5,486,452	1/23/96	Gordon et al.	435	5	4/10/87
<u>PP</u> GJ	5,489,507	2/6/96	Chehab	435	6	5/1/91
<u>PP</u> GK	5,489,678	2/6/96	Fodor et al.	536	22.1	2/16/95
<u>PP</u> GL	5,492,806	2/20/96	Drmanac et al.	435	5	4/12/93
<u>PP</u> GM	5,494,810	2/27/96	Barany et al.	435	91.52	11/22/94
<u>PP</u> GN	5,510,270	4/23/96	Fodor et al.	436	518	9/30/92
<u>PP</u> GO	5,525,464	6/11/96	Drmanac et al.	435	6	2/28/94
<u>PP</u> GP	5,527,681	6/18/96	Holmes	435	6	11/5/92
<u>PP</u> GQ	5,552,270	9/3/96	Khrapko et al.	435	6	11/9/92
<u>PP</u> GR	5,556,961	9/17/96	Foot et al.	536	27.1	10/24/94
<u>PP</u> GS	5,561,071	10/1/96	Hollenberg et al.	437	1	9/25/95
<u>PP</u> GT	5,569,584	10/29/96	Augenlicht	435	6	3/14/94
<u>PP</u> GU	5,571,639	11/5/96	Hubbell et al.	430	5	5/24/94
<u>PP</u> GV	5,593,839	1/14/97	Hubbell et al.	435	6	6/2/95
<u>PP</u> GW	5,599,720	2/4/97	Ekins	436	501	6/17/94
<u>PP</u> GX	5,604,099	2/18/97	Erlich et al.	435	6	6/1/95
<u>PP</u> GY	5,643,728	7/1/97	Slater et al.	435	6	2/27/95
<u>PP</u> GZ	5,653,939	8/5/97	Hollis et al.	422	50	8/7/95
<u>PP</u> HA	5,667,667	9/16/97	Southern	205	687	7/18/96
<u>PP</u> HB	5,667,972	9/16/97	Drmanac et al.	435	6	6/5/95
<u>PP</u> HC	5,695,940	12/9/97	Drmanac et al.	435	6	6/5/95
<u>PP</u> HD	5,698,393	12/16/97	Macioszek et al.	435	5	8/18/95
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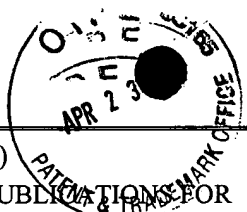
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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			Applicant: Pirrung et al.			
			Filing Date: September 1, 2000		Group: 1643	
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HJ	5,800,992	9/1/98	Fodor et al.	435	6	6/25/96
HK	5,807,522	9/15/98	Brown et al.	422	50	6/7/95
HL	5,830,645	11/3/98	Pinkel et al.	435	6	12/9/94
HM	5,843,767	12/1/98	Beattie	435	287.1	4/10/96
HN	5,846,708	12/8/98	Hollis et al.	435	6	4/23/92
HO	5,869,237	2/9/99	Ward et al.	435	6	11/22/94
HP	5,871,697	2/16/99	Rothberg et al.	422	68.1	10/24/95
HQ	5,972,619	10/26/99	Drmanac et al.	435	6	10/22/98
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HS	6,025,136	2/15/00	Drmanac et al.	435	6	8/28/97
HT	6,040,166	3/21/00	Erlich et al.	435	194	9/27/94
HU	6,054,270	4/25/00	Southern	435	6	9/9/97

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub-class	Translation (Yes/No)
<u>PP</u> HV	EP 046 083	2/17/82	Europe <u>EP</u>			
HW	EP 063 810	3/5/86	Europe			
HX	EP 088 636	9/14/83	Europe			
HY	EP 103 197	3/21/84	Europe			
HZ	EP 127 438	12/5/84	Europe			
IA	EP 130 523	6/1/88	Europe			
IB	EP 142 299	12/19/90	Europe			
IC	EP 171 150	3/25/92	Europe			
ID	EP 173 339	1/22/92	Europe			
IE	EP 174 879	3/19/86	Europe			Yes
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IG	EP 194 132	9/10/86	Europe			
IH	EP 225 807	10/19/94	Europe			
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IK	EP 232 967	4/28/93	Europe			
IL	EP 235 726	5/19/93	Europe			
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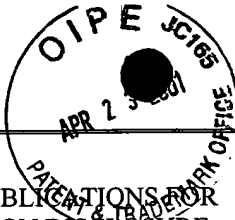


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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				Applicant: Pirrung et al.			
				Filing Date: September 1, 2000		Group: 1643	
<u>PA</u>	IP	EP 268 237	5/28/88	Europe	EPO		
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	JB	EP 476 014	8/31/94	Europe			
	JC	EP 535 242	9/3/97	Europe			
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	JF	EP 721 016	7/10/96	Europe			
	JG	EP 848 067	6/17/98	Europe	✓		
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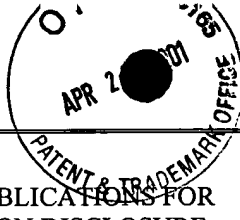
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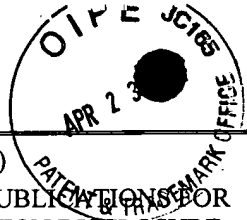
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
<input checked="" type="checkbox"/> LS	Sequencing by Hybridization Workshop, listing of participants and workshop presentation summaries, from workshop held 11/19-20/91.					
<input checked="" type="checkbox"/> LT	"A Sequencing Reality Check," <u>Science</u> , 242:1245 (1988)					
<input checked="" type="checkbox"/> LU	"Affymax raises \$25 million to develop high-speed drug discovery system," <u>Biotechnology News</u> , 10(3):7-8 (1990)					
<input checked="" type="checkbox"/> LV	"Preparation of fluorescent-labeled DNA and its use as a probe in molecular hybridization," <u>Bioorg Khim</u> , 12(11):1508-1513 (1986)					
<input checked="" type="checkbox"/> LW	Abbott et al., "Manipulation of the Wettability of Surfaces on the 0.1 – to 1 –Micrometer Scale Through Micromachining and Molecular Self-Assembly," <u>Science</u> , 257:1380-1382 (1992)					
<input checked="" type="checkbox"/> LX	Adams et al., "Complementary DNA Sequencing: Expressed Sequence Tags and Human Genome Project," <u>Science</u> , 252(5013):1651-1656 (1991)					
<input checked="" type="checkbox"/> LY	Adams et al., "Photolabile Chelators That "Cage" Calcium with Improved Speed of Release and Pre-Photolysis Affinity," <u>J. Gen. Physiol.</u> , pg. 9a (12/86)					
<input checked="" type="checkbox"/> LZ	Adams et al., "Biologically Useful Chelators That Take Up Ca ²⁺ upon Illumination," <u>J. Am. Chem. Soc.</u> , 111:7957-7968 (1989)					
<input checked="" type="checkbox"/> MA	Ajayaghosh et al., "Solid-Phase Synthesis of N-Methyl- and N-Ethylamides of Peptides Using Photolytically Detachable ((3-Nitro-4((alkylamino)methyl)benzamido)methyl)polystyrene Resin," <u>J.Org.Chem.</u> , 55(9):2826-2829 (1990)					
<input checked="" type="checkbox"/> MB	Ajayaghosh et al., "Solid-phase synthesis of C-terminal peptide amides using a photoremovable α -methylphenacylamido anchoring linkage," <u>Proc. Ind. Natl. Sci (Chem.Sci.)</u> , 100(5):389-396 (1988)					
<input checked="" type="checkbox"/> MC	Ajayaghosh et al., "Polymer-supported Solid-phase Synthesis of C-Terminal Peptide N-Methylamides Using a Modified Photoremovable 3-Nitro-4-N-methylaminomethylpolystyrene Support," <u>Ind.J.Chem.</u> , 27B:1004-1008 (1988)					
<input checked="" type="checkbox"/> MD	Ajayaghosh et al., "Polymer-Supported Synthesis of Protected Peptide Segments on a Photosensitive o-Nitro(α -Methyl)Bromobenzyl Resin," <u>Tetrahedron</u> , 44(21):6661-6666 (1988)					
<input checked="" type="checkbox"/> ME	Amit et al., "Photosensitive Protecting Groups of Amino Sugars and Their Use in Glycoside Synthesis. 2-Nitrobenzyloxycarbonylamino and 6-Nitroveratryloxycarbonylamino Derivatives," <u>J.Org.Chem.</u> , 39(2):192-196 (1974)					
<input checked="" type="checkbox"/> MF	Amit et al., "Photosensitive Protecting Groups – A Review," <u>Israel J. Chem.</u> , 12(1-2):103-113 (1974)					
<input checked="" type="checkbox"/> MG	Anand et al., "A 3.5 genome equivalent multi access YAC library: construction, characterisation, screening and storage," <u>Nuc. Acids Res.</u> , 18(8):1951-1956 (1990).					
<input checked="" type="checkbox"/> MH	Anderson et al., "Quantitative Filter Hybridisation," chapter 3 from <i>Nucleic Acid Hybridization a practical approach</i> , pgs. 73-111, Hames et al., eds., IRL Press (1985).					
<input checked="" type="checkbox"/> MI	Applied Biosystems, Model 431A Peptide Synthesizer User's manual, Sections 2 and 6, (8/15/89)					
<input checked="" type="checkbox"/> MJ	Arnold et al., "A Novel Universal Support for DNA & RNA Synthesis," abstract from <u>Federation Proceedings</u> , 43(7): abstract no. 3669 (1984)					
<input checked="" type="checkbox"/> MK	Atherton et al., <i>Solid Phase Peptide Synthesis: A Practical Approach</i> , IRL Press, (1989), tbl. of cont., pp. vii-ix					



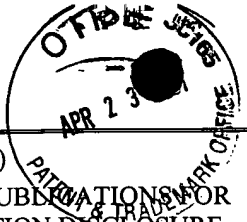
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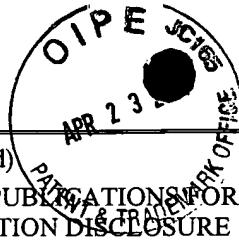
ML	Augenlicht et al., "Cloning and Screening of Sequences Expressed in a Mouse Colon Tumor," <u>Cancer Research</u> , 42:1088-1093 (1982)
MM	Augenlicht et al., "Expression of Cloned Sequences in Biopsies of Human Colonic Tissue and in Colonic Carcinoma Cells Induced to Differentiate <i>in Vitro</i> ," <u>Cancer Res.</u> , 47:6017-6021 (1987)
MN	Bains, W., "Hybridization Methods for DNA Sequencing," <u>Genomics</u> , 11(2):294-301 (1991)
MO	Bains et al., "A Novel Method for Nucleic Acid Sequence Determination," <u>J.Theor.Biol.</u> , 135:303-307 (1988)
MP	Bains, W., "Alternative Routes Through the Genome," <u>Biotechnology</u> , 8:1251-1256 (1988)
MQ	Balachander et al., "Functionalized Siloxy-Anchored Monolayers with Exposed Amino, Azido, Bromo, or Cyano Groups," <u>Tetrahed. Ltrs.</u> , 29(44):5593-5594 (1988)
MR	Baldwin et al., "New Photolabile Phosphate Protecting Groups," <u>Tetrahed.</u> , 46(19):6879-6884 (1990)
MS	Bannwarth et al., "Laboratory Methods, A System for the Simultaneous Chemical synthesis of Different DNA Fragments on Solid Support," <u>DNA</u> , 5(5):413-419 (1986).
MT	Bannwarth, W., "Gene Technology: a Challenge for a Chemist," <u>CHIMIA</u> , 41(9):302-317 (1987).
MU	Barany, F., "Genetic disease detection and DNA amplification using cloned thermostable ligase," <u>PNAS</u> , 88:189-193 (1991).
MV	Bartrop et al., "Photosensitive Protective Groups," <u>Chemical Communications</u> , pgs. 822-823 (1966)
MW	Barinaga, M., "Will 'DNA Chip' Speed Genome Initiative," <u>Science</u> , 253:1489 (1985)
MX	Bart et al., "Microfabricated Electrohydrodynamic Pumps," <u>Sensors and Actuators</u> , A21-A23:193-197 (1990)
MY	Bartsh et al., "Cloning of mRNA sequences from the human colon: Preliminary characterisation of defined mRNAs in normal and neoplastic tissues," <u>Br.J.Can.</u> , 54:791-798 (1986)
MZ	Baum, R., "Fledgling firm targets drug discovery process," <u>Chem. Eng. News</u> , p. 10-11 (1990)
NA	Beltz et al., "Isolation of Multigene Families and Determination of Homologies by Filter Hybridization Methods," <u>Methods in Enzymology</u> , 100:266-285 (1983)
NB	Benschop, Chem. Abstracts 114(26):256643 (1991)
NC	Bhatia et al., "New Approach To Producing Patterned Biomolecular Assemblies," <u>J. American Chemical Society</u> , 114:4432-4433 (1992)
ND	Biorad Chromatography Electrophoresis Immunochemistry Molecular Biology HPLC catalog M 1987 pp. 182
NE	Blawas et al., "Step-and-Repeat Photopatterning of Protein Features Using Caged-Biotin-BSA: Characterization and Resolution," <u>Langmuir</u> , 14(15):4243-4250 (1998)
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NG	Bos et al., "Amino-acid substitutions at codon 13 of the N-ras oncogene in human acute myeloid leukaemia," <u>Nature</u> , 315:726-730 (1985)
NH	Boyle et al., "Differential distribution of long and short interspersed element sequences in the mouse genome: Chromosome karyotyping by fluorescence <i>in situ</i> hybridization," <u>PNAS</u> , 87:7757-7761 (1990)
NI	Brock et al., "Rapid fluorescence detection of in situ hybridization with biotinylated bovine herpesvirus-1 DNA probes," <u>J.Veterinary Diagnostic Invest.</u> , 1:34-38 (1989)
NJ	Burgi et al., "Optimization in Sample Stacking for High-Performance Capillary Electrophoresis," <u>Anal. Chem.</u> , 63:2042-2047 (1991)
NK	Cameron et al., "Photogeneration of Organic Bases from o-Nitrobenzyl-Derived Carbamates," <u>J. Am. Chem. Soc.</u> , 113:4303-4313 (1991)
NL	Carrano et al., "A High-Resolution, Fluorescence-Based, Semiautomated Method for DNA Fingerprinting," <u>Genomics</u> , 4:129-136 (1989)
NM	Caruthers, M.H., "Gene Synthesis Machines: DNA Chemistry and Its Uses," <u>Science</u> , 230:281-285 (1985)



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		Filing Date: September 1, 2000	Group: 1643
<u>PI</u> NN	Chatterjee et al., "Inducible Alkylation of DNA Using an Oligonucleotide-Quinone Conjugate," <u>Am. J. Chem. Soc.</u> , 112:6397-6399 (1990)		
NO	Chee et al., "Accessing Genetic Information with High-Density DNA Arrays," <u>Science</u> , 274:610-614 (1996)		
NP	Chehab et al., "Detection of sickle cell anaemia mutation by colour DNA amplification," <u>Lancet</u> , 335:15-17 (1990)		
NQ	Chehab et al., "Detection of specific DNA sequences by fluorescence amplification: A color complementation assay," <u>PNAS</u> , 86:9178-9182 (1989)		
NR	Chetverin et al., "Oligonucleotide Arrays: New Concepts and Possibilities," <u>Biotechnology</u> , 12:1093-1099 (1994).		
NS	Church et al., "Multiplex DNA sequencing," <u>Science</u> , 240:185-188 (1988).		
NT	Church et al., "Genomic sequencing," <u>PNAS</u> , 81:1991-1995 (1984).		
NU	Clevite Corp., Piezoelectric Technology, Data for Engineers		
NV	Corbett et al., "Reaction of Nitroso Aromatics with Glyoxylic Acid. A New Path to Hydroxamic Acids," <u>J. Org. Chem.</u> , 45:2834-2839 (1980)		
NW	Coulson et al., "Toward a physical map of the genome of the nematode <i>Caenorhabditis elegans</i> ," <u>PNAS</u> , 83:7821-7825 (1986).		
NX	Craig et al., "Ordering of cosmid clones covering the Herpes simplex virus type 1 (HSV-1) genome: a test case for fingerprinting by hybridization," <u>Nuc. Acid. Res.</u> , 18(9):2653-2660 (1990)		
NY	Cummings et al., "Photoactivable Fluorophores. 1. Synthesis and Photoactivation of o-Nitrobenzyl-Quenched Fluorescent Carbamates," <u>Tetrahedron Letters</u> , 29(1):65-68 (1988)		
NZ	Dattagupta et al., "Rapid identification of Microorganisms by Nucleic Acid Hybridization after Labeling the Test Sample," <u>Anal. Biochem.</u> , 177:85-89 (1989).		
OA	Dattagupta et al., "Nucleic Acid Hybridization: a Rapid Method for the Diagnosis of Infectious Diseases," <u>Perspectives in Antiinfective Therapy</u> , eds. Jackson et al., pages 241-247 (1988).		
OB	Dower et al., "The Search for Molecular Diversity (II): Recombinant and Synthetic Randomized Peptide Libraries," <u>Ann. Rep. Med. Chem.</u> , 26:271-280 (1991).		
OC	Diggelmann, "Investigating the VLSIPS synthesis process," 9/9/94		
OD	Di Mauro et al., "DNA Technology in Chip Construction," <u>Adv. Mater.</u> , 5(5):384-386 (1993)		
OE	Drmanac et al., "An Algorithm for the DNA Sequence Generation from k-Tuple Word Contents of the Minimal Number of Random Fragments," <u>J. Biomol. Struct. Dyn.</u> , 8(5):1085-1102 (1991).		
OF	Drmanac et al., "Partial Sequencing by Oligo-Hybridization Concept and Applications in Genome Analysis," 1st Int. Conf. Electrophor., Supercomp., Hum. Genome pgs. 60-74 (1990)		
OG	Drmanac et al., "Sequencing by Oligonucleotide Hybridization: A Promising Framework in Decoding of the Genome Program?," 1st Int. Conf. Electrophor., Supercomp., Hum. Genome pgs. 47-59 (1990)		
OH	Drmanac et al., "Laboratory Methods, Reliable Hybridization of Oligonucleotides as Short as Six Nucleotides," <u>DNA and Cell Biol.</u> , 9(7):527-534 (1990)		
OI	Drmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: theory of the Method," <u>Genomics</u> , 4:114-128 (1989)		
OJ	Dramanac et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," abstract of presentation given at Cold Spring Harbor Symposium on Genome Mapping and Sequencing, 4/27/88 thru 5/1/88		
OK	Dulcey et al., "Deep UV Photochemistry of Chemisorbed Monolayers: Patterned Coplanar Molecular Assemblies," <u>Science</u> , 252:551-554 (1991)		
OL	Duncan et al., "Affinity Chromatography of a Sequence-Specific DNA Binding Protein Using Teflon-Linked Oligonucleotides," <u>Analytical Biochemistry</u> , 169:104-108 (1988)		
OM	Effenhauser et al., "Glass Chips for High-speed Capillary Electrophoresis Separations with Submicrometer Plate Heights," <u>Anal. Chem.</u> , 65:2637-2642 (1993)		
<u>ON</u>	Effenhauser et al., "High-Speed Separation of Antisense Oligonucleotides on a Micromachined Capillary Electrophoresis Device," <u>Anal. Chem.</u> , 66:2949-2953 (1994)		

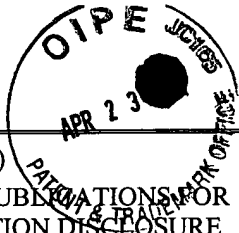


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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant: Pirrung et al.	
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<input checked="" type="checkbox"/> OO	Ekins et al., "High Specific Activity Chemiluminescent and Fluorescent Markers: their Potential Application to High Sensitivity and 'Multi-analyte' Immunoassays," <u>J. Bioluminescence Chemiluminescence</u> , 4:59-78 (1989)		
<input type="checkbox"/> OP	Ekins et al., "Development of Microspot Multi-Analyte Ratiometric Immunoassay Using dual Fluorescent-Labelled Antibodies," <u>Anal. Chemica Acta</u> , 227:73-96 (1989)		
<input type="checkbox"/> OQ	Ekins et al., "Multianalyte Microspot Immunoassay-Microanalytical 'Compact Disk' of the Future," <u>Clin. Chem.</u> , 37(11):1955-1967 (1991)		
<input type="checkbox"/> OR	Ekins, R.P., "Multi-Analyte immunoassay*," <u>J. Pharmaceut. Biomedical Analysis</u> , 7(2):155-168 (1989)		
<input type="checkbox"/> OS	Ekins et al., "Fluorescence Spectroscopy and its Application to a New Generation of High Sensitivity, Multi-Microspot, Multianalyte, Immunoassay," <u>Clin. Chim. Acta</u> , 194:91-114 (1990)		
<input type="checkbox"/> OT	Elder, J.K., "Analysis of DNA Oligonucleotide Hybridization Data by Maximum Entropy," in <i>Maximum Entropy and Bayesian Methods</i> , eds. Mohammad-Djafari and Demoment, Kluwer, Dordrecht, pp. 363-371 (1992).		
<input type="checkbox"/> OU	Ellis, R.W., "The Applications of Synthetic Oligonucleotides to Molecular Biology," <u>Pharmaceutical Research</u> , 3(4):195-207 (1986).		
<input type="checkbox"/> OV	Evans et al., "Microfabrication for Automation of Molecular processes in Human Genome Analysis," <u>Clin. Chem.</u> , 41(11):1681 (1995)		
<input type="checkbox"/> OW	Evans et al., "Physical mapping of complex genomes by cosmid multiplex analysis," <u>PNAS</u> , 86:5030-5034 (1989)		
<input type="checkbox"/> OX	Ezaki et al., "Small-Scale DNA Preparation for Rapid Genetic Identification of <i>Campylobacter</i> Species without Radioisotope," <u>Microbiol. Immunology</u> , 32(2):141-150 (1988)		
<input type="checkbox"/> OY	Fan et al., "Mapping small DNA sequences by fluorescence <i>in situ</i> hybridization directly on banded metaphase chromosomes," <u>PNAS</u> , 87(16):6223-6227 (1990)		
<input type="checkbox"/> OZ	Fan et al., "Micromachining of Capillary Electrophoresis Injectors and Separators on Glass Chips and Evaluation of Flow at Capillary Intersections," <u>Anal. Chem.</u> , 66:177-184 (1994)		
<input type="checkbox"/> PA	Feinberg et al., ADDENDUM to "A technique for Radiolabeling DNA Restriction Endonuclease Fragments to High Specific Activity," <u>Anal. Biochem.</u> , 137:266-267 (1984).		
<input type="checkbox"/> PB	Fettingner et al., "Stacked modules for micro flow systems in chemical analysis: concept and studies using an enlarged model," <u>Sensors and Actuators</u> , B17:19-25 (1993)		
<input type="checkbox"/> PC	Flanders et al., "A new interferometric alignment technique," <u>App. Phys. Ltrs.</u> , 31(7):426-429 (1977)		
<input type="checkbox"/> PD	Fodor et al., "Multiplexed biochemical assays with biological chips," <u>Nature</u> , 364:555-556 (1993)		
<input type="checkbox"/> PE	Fodor et al., "Light-directed, Spatially Addressable Parallel Chemical Synthesis," <u>Science</u> , 251:767-773 (1991)		
<input type="checkbox"/> PF	Forman et al., "Thermodynamics of Duplex Formation and Mismatch Discrimination on Photolithographically Synthesized Oligonucleotide Arrays," chapter 13pgs. 206-228 from <i>Molecular Modeling of Nucleic Acids</i> , ACS Symposium Series 682, 4/13-17/97, Leontis et al., eds.		
<input type="checkbox"/> PG	Frank et al., "Simultaneous Multiple Peptide Synthesis Under Continuous flow Conditions on Cellulose Paper Discs as Segmental Solid Supports," <u>Tetrahedron</u> , 44(19):6031-6040 (1988)		
<input type="checkbox"/> PH	Frank et al., "Automation of DNA Sequencing Reactions and Related Techniques: A Workstation for Micromanipulation of Liquids," <u>Bio/Technology</u> , 6:1211-1212 (1988)		
<input type="checkbox"/> PI	Frank et al., "Simultaneous Synthesis and Biological Applications of DNA Fragments: An Efficient and Complete Methodology," <u>Methods in Enzymology</u> , 154:221-250 (1987)		
<input type="checkbox"/> PJ	Fuhr et al., "Travelling wave-driven microfabricated electrohydrodynamic pumps for liquids," <u>J. Micromech. Microeng.</u> , 4:217-226 (1994)		
<input type="checkbox"/> PK	Fuller et al., "Urethane-Protected Amino Acid N-Carboxy Anhydrides and Their Use in Peptide Synthesis," <u>J. Amer. Chem. Soc.</u> , 112(20):7414-7416 (1990)		
<input type="checkbox"/> PL	Furka et al., "General method for rapid synthesis of multicomponent peptide mixtures," <u>Int. J. Peptide Protein Res.</u> , 37:487-493 (1991)		
<input type="checkbox"/> PM	Furka et al., "Cornucopia of Peptides by Synthesis," 14th Int.Congress of Biochem. abst.# FR:013, 7/10-15/88 Prague, Czechoslovakia		
<input checked="" type="checkbox"/> PN	Furka et al., "More Peptides by Less Labour," abst. 288, Int. Symp. Med. Chem., Budapest Hungary 8/15-19/88		

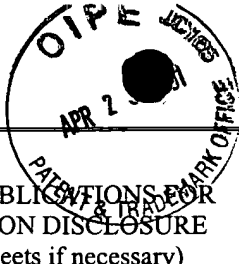


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<input checked="" type="checkbox"/> PO	Gait, eds., pages 1-115 from <i>Oligonucleotide Synthesis: A Practical Approach</i> , IRL Press, (1984)
<input type="checkbox"/> PP	Gazard et al., "Lithographic Technique Using Radiation-Induced Grafting of Acrylic Acid into Poly(Methyl Methacrylate) Films," <i>Polymer Engineering and Science</i> , 20(16):1069-1072 (1980)
<input type="checkbox"/> PQ	Gergen et al., "Filter replicas and permanent collections of recombinant DNA plasmids," <i>Nuc. Acids Res.</i> , 7(8):2115-2137 (1979)
<input type="checkbox"/> PR	Getzoff et al., "Mechanisms of Antibody Binding to a Protein," <i>Science</i> , 235:1191-1196 (1987)
<input type="checkbox"/> PS	Geysen et al., "Strategies for epitope analysis using peptide synthesis," <i>J. Immunol. Meth.</i> , 102:259-274 (1987)
<input type="checkbox"/> PT	Geysen et al., "Use of peptide synthesis to probe viral antigens for epitopes to a resolution of a single amino acid," <i>PNAS</i> , 81:3998-4002 (1984)
<input type="checkbox"/> PU	Geysen et al., "A synthetic strategy for epitope mapping," from <i>Peptides: Chem. & Biol., Proc. of 10th Am. Peptide Symp.</i> , 5/23-28/87, pp. 519-523, (1987)
<input type="checkbox"/> PV	Geysen, "Antigen-antibody interactions at the molecular level: adventures in peptide synthesis," <i>Immunol. Today</i> , 6(12):364-369 (1985)
<input type="checkbox"/> PW	Geysen et al., "Cognitive Features of Continuous Antigenic Determinants," from <i>Synthetic Peptides: Approaches to Biological Probes</i> , pp. 19-30, (1989)
<input type="checkbox"/> PX	Geysen et al., "Chemistry of Antibody Binding to a Protein," <i>Science</i> , 235:1184-1190 (1987)
<input type="checkbox"/> PY	Geysen et al., "The delineation of peptides able to mimic assembled epitopes," 1986 CIBA Symp., pp. 130-149
<input type="checkbox"/> PZ	Geysen et al., "Cognitive Features of Continuous Antigenic Determinants," <i>Mol. Recognit.</i> , 1(1):1-10 (1988)
<input type="checkbox"/> QA	Geysen et al., "A Prio Ri Delineation of a Peptide Which Mimics A Discontinuous Antigenic Determinant," <i>Mol. Immunol.</i> , 23(7):709-715 (1986)
<input type="checkbox"/> QB	Ghosh et al., "Covalent attachment of oligonucleotides to solid supports," <i>Nuc. Acids Res.</i> , 15(13):5353-5373 (1987).
<input type="checkbox"/> QC	Gilon et al., "Backbone Cyclization: A New Method for Conferring Conformational Constraint on Peptides," <i>Biopolymers</i> , 31(6):745-750 (1991)
<input type="checkbox"/> QD	Gingeras et al., "Hybridization properties of immobilized nucleic acids," <i>Nuc. Acids Res.</i> , 15(13):5373-5390 (87)
<input type="checkbox"/> QE	Gummerlock et al., "RAS Enzyme-Linked Immunoblot Assay Discriminates p21 Species: A Technique to Dissect Gene Family Expression," <i>Anal. Biochem.</i> , 180:158-168 (1989)
<input type="checkbox"/> QF	Gurney et al., "Activation of a potassium current by rapid photochemically generated step increases of intracellular calcium in rat sympathetic neurons," <i>PNAS</i> , 84:3496-3500 (1987)
<input type="checkbox"/> QG	Haase et al., "Detection of Two Viral Genomes in Single Cells by Double-Label Hybridization in Situ and Color Microradioautography," <i>Science</i> , 227:189-192 (1985)
<input type="checkbox"/> QH	Hacia, et al., "Two color hybridization analysis using high density oligonucleotide arrays and energy transfer dyes," <i>Nuc. Acids Res.</i> , 26(16):3865-3866 (1998)
<input type="checkbox"/> QI	Hack, M.L., "Conics Formed to Make Fluid & Industrial Gas Micromachines," <i>Genetic Engineering News</i> , 15(18):1, 29 (1995)
<input type="checkbox"/> QJ	Hagedorn et al., "Pumping of Water Solutions in Microfabricated Electrohydrodynamic Systems," from <i>Micro Electro Mechanical Systems conference in Travemunde Germany</i> (1992)
<input type="checkbox"/> QK	Hames et al., <i>Nuclear acid hybridization, a practical approach</i> , cover page and table of contents (1985)
<input type="checkbox"/> QL	Hanahan et al., "Plasmid Screening at High Colony Density," <i>Meth. Enzymology</i> , 100:333-342 (1983)
<input type="checkbox"/> QM	Hanahan et al., "Plasmid screening at high colony density," <i>Gene</i> , 10:63-67 (1980)
<input type="checkbox"/> QN	Haridasan et al., "Peptide Synthesis using Photolytically Cleavable 2-Nitrobenzyloxycarbonyl Protecting Group," <i>Proc. Indian Natn. Sci. Acad.</i> , 53A(6):717-728 (1987)
<input type="checkbox"/> QO	Harrison et al., "Capillary Electrophoresis and Sample Injection Systems Integrated on a Planar Glass Chip," <i>Anal. Chem.</i> , 64:1926-1932 (1992)
<input checked="" type="checkbox"/> QP	Harrison et al., "Micromachining a Minaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip," <i>Science</i> , 261:895-897 (1993)



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		Filing Date: September 1, 2000	Group: 1643
<input checked="" type="checkbox"/> PP	QQ	Harrison et al., "Towards minaturized electrophoresis and chemical analysis systems on silicon: an alternative to chemical sensors*," <u>Sensors and Actuators</u> , B10:107-116 (1993)	
<input type="checkbox"/>	QR	Harrison et al., "Rapid separation of fluorescein derivatives using a micromachined capillary electrophoresis system," <u>Analytica Chimica Acta</u> , 283:361-366 (1993)	
<input type="checkbox"/>	QS	Hellberg et al., "Minimum analogue peptide sets (MAPS) for quantitative structure-activity relationships," <u>Int. J. Peptide Protein Res.</u> , 37:414-424 (1991)	
<input type="checkbox"/>	QT	Hilser et al., "Protein and peptide mobility in capillary zone electrophoresis, A comparison of existing models and further analysis," <u>J. Chromatography</u> , 630:329-336 (1993)	
<input type="checkbox"/>	QU	Ho et al., "Highly Stable Biosensor Using an Artificial Enzyme," <u>Anal.Chem.</u> , 59:536-537 (1987)	
<input type="checkbox"/>	QV	Hochgeschwender et al., "Preferential expression of a defined T-cell receptor β -chain gene in hapten-specific cytotoxic T-cell clones," <u>Nature</u> , 322:376-378 (1986)	
<input type="checkbox"/>	QW	Hodgson, J., "Assays A La Photolithography," <u>Biotech.</u> , 9:419 (1991)	
<input type="checkbox"/>	QX	Hodgson et al., "Hybridization probe size control: optimized 'oligolabelling'," <u>Nuc.Acids Res.</u> , 15(15):6295 (1987).	
<input type="checkbox"/>	QY	Hopman et al., "Bi-color detection of two target DNAs by non-radioactive in situ hybridization*," <u>Histochem.</u> , 85:1-4 (1986)	
<input type="checkbox"/>	QZ	Iwamura et al., "1-Pyrenylmethyl Esters, Photolabile Protecting Groups for Carboxylic Acids," <u>Tetrahedron Ltrs.</u> , 28(6):679-682 (1987)	
<input type="checkbox"/>	RA	Iwamura et al., "1-(α -Diazobenzyl)pyrene: A Reagent for Photolabile and Fluorescent Protection of Carboxyl Groups of Amino Acids and Peptides," <u>Synlett</u> , p. 35-36 (1991)	
<input type="checkbox"/>	RB	Jacobson et al., "Effects of Injection Schemes and Column Geometry on the Performance of Microchip Electrophoresis Devices," <u>Anal. Chem.</u> , 66:1107-1113 (1994)	
<input type="checkbox"/>	RC	Jacobsen et al., "Open Channel Electrochromatography on a Microchip," <u>Anal. chem.</u> , 66:2369-2373 (1994)	
<input type="checkbox"/>	RD	Jacobson et al., "Microchip Capillary Electrophoresis with an Integrated Postcolumn Reactor" <u>Anal. Chem.</u> , 66:3472-3476 (1994)	
<input type="checkbox"/>	RE	Jacobson et al., "Precolumn Reactions with Electrophoretic Analysis Integrated on a Microchip," <u>Anal. Chem.</u> , 66:4127-4132 (1994)	
<input type="checkbox"/>	RF	Jacobson et al., "Microfabricated chemical measurement systems," <u>Nature Medicine</u> , 1(10):1093-1096 (1995)	
<input type="checkbox"/>	RG	Jacobsen et al., "Fused Quartz Substrates for Microchip Electrophoresis," <u>Anal. chem.</u> , 67:2059-2063 (1995)	
<input type="checkbox"/>	RH	Jacobson et al., "High-Speed Separations on a Microchip," <u>Anal. Chem.</u> , 66:1114-1118 (1994)	
<input type="checkbox"/>	RI	Jacobson et al., "Microchip electrophoresis with sample stacking," <u>Electrophoresis</u> , 16:481-486 (1995)	
<input type="checkbox"/>	RJ	Jayakumari, "Peptide synthesis in a triphasic medium catalysed by papain immobilized on a crosslinked polystyrene support," <u>Indian J. Chemistry</u> , 29B:514-517 (1990)	
<input type="checkbox"/>	RK	Jovin et al., "Luminescence Digital Imaging Microscopy," <u>Ann. Rev. Biophys. Biophys. Chem.</u> , 18:271-308 (1989).	
<input type="checkbox"/>	RL	Kafatos et al., "Determination of nucleic acid sequence homologies and relative concentrations by a dot hybridization procedure," <u>Nuc. Acids Res.</u> , 7(6):1541-1553 (1979).	
<input type="checkbox"/>	RM	Kaiser et al., "Peptide and Protein Synthesis by Segment Synthesis-Condensation," <u>Science</u> , 243:187-192 (1989)	
<input type="checkbox"/>	RN	Kaplan et al., "Photolabile chelators for the rapid photorelease of divalent cations," <u>PNAS</u> , 85:6571-6575 (1988)	
<input type="checkbox"/>	RO	Karube, "Micro-biosensors based on silicon fabrication technology," chapter 25 from <u>Biosensors:Fundamentals and Applications</u> , Turner et al., eds., Oxford Publ., 1987, pgs. 471-480 (1987)	
<input type="checkbox"/>	RP	Kates et al., "A Novel, Convenient, Three-dimensional Orthogonal Strategy for Solid-Phase Synthesis of Cyclic Peptides 1-3," <u>Tetrahed. Letters</u> , 34(10):1549-1552 (1993)	
<input checked="" type="checkbox"/>	RQ	Kerkof et al., "A Procedure for Making Simultaneous Determinations of the Relative Levels of Gene Transcripts in Tissues or Cells," <u>Anal. Biochem.</u> , 188:349-355 (1990)	



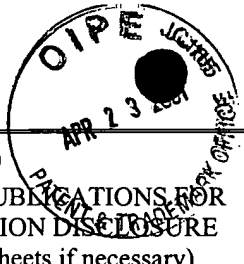
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<input checked="" type="checkbox"/> RR	Khrapko et al., "An Oligonucleotide hybridization approach to DNA sequencing," <u>FEBS Lett.</u> , 256(1,2):118-122 (1989)		
<input type="checkbox"/> RS	Khrapko et al., "A method for DNA sequencing by hybridization with oligonucleotide matrix," <u>DNA Seq. Map.</u> , 1:375-388 (1991).		
<input type="checkbox"/> RT	Kidd et al., " α_1 -Antitrypsin deficiency detection by direct analysis of the mutation in the gene," <u>Nature</u> , 304:230-234 (1983).		
<input type="checkbox"/> RU	Kievits et al., "Rapid subchromosomal localization of cosmids by nonradioactive in situ hybridization," <u>Cytogenetics Cell Genetics</u> , 53(2-3):134-136 (1990)		
<input type="checkbox"/> RV	Kimura et al., "An Immobilized Enzyme Membrane Fabrication Method using an Ink Jet Nozzle," <u>Biosensors</u> , 4:41-52 (1988)		
<input type="checkbox"/> RW	Kimura et al., "An Integrated SOS/FET Multi-Biosensor," <u>Sensors & Actuators</u> , 9:373-387 (1986)		
<input type="checkbox"/> RX	Kitazawa et al., "In situ DNA-RNA hybridization using in vivo bromodeoxyuridine-labeled DNA probe," <u>Histochemistry</u> , 92:195-199 (1989)		
<input type="checkbox"/> RY	Kleinfeld et al., "Controlled Outgrowth of Dissociated Neurons on Patterned Substrates," <u>J. Neurosci.</u> , 8(11):4098-4120 (1988)		
<input type="checkbox"/> RZ	Knight, P., "Materials and Methods/Microsequencers for Proteins and Oligosaccharides," <u>Bio/Tech.</u> , 7:1075-76 (1989)		
<input type="checkbox"/> SA	Kohara et al., "The Physical Map of the Whole E. coli Chromosome: Application of a New Strategy for Rapid Analysis and Sorting of a Large Genomic Library," <u>Cell</u> , 50:495-508 (1987)		
<input type="checkbox"/> SB	Krile et al., "Multiplex holography with chirp-modulated binary phase-coded reference-beam masks," <u>Applied Opt.</u> , 18(1):52-56 (1979)		
<input type="checkbox"/> SC	Labat, I., "Subfragments as an informative characteristic of the DNA molecule - computer simulation," research report submitted to the University of Belgrade College of Natural Sciences and Mathematics, (1988)		
<input type="checkbox"/> SD	Lander et al., "Genomic Mapping by Fingerprinting Random Clones: A Mathematical Analysis," <u>Genomics</u> , 2:231-239 (1988).		
<input type="checkbox"/> SE	Lainer et al., "Human Lymphocyte Subpopulations Identified by Using Three-Color Immunofluorescence and Flow Cytometry Analysis: Correlation of Leu-2, Leu-3, Leu-7, Leu-8, and Leu-11 Clec Surface Antigen Expression," <u>Journal of Immunology</u> , 132(1):151-156 (1984)		
<input type="checkbox"/> SF	Lam et al., "A new type of synthetic peptide library for identifying ligand-binding activity," <u>Nature</u> , 354:82-84 (1991)		
<input type="checkbox"/> SG	Laskey et al., "Messenger RNA prevalence in sea urchin embryos measured with cloned cDNAs," <u>PNAS</u> , 77(9):5317-5321 (1980)		
<input type="checkbox"/> SH	Lee et al., "synthesis of a Polymer Surface Containing Covalently Attached Triethoxysilane Functionality: Adhesion to Glass," <u>Macromolecules</u> , 21:3353-3356 (1988)		
<input type="checkbox"/> SI	Lehrach et al., "Labelling oligonucleotides to high specific activity (I)," <u>Nuc. Acids Res.</u> , 17(12):4605-4610 (89)		
<input type="checkbox"/> SJ	Lehrach et al., "Phage Vectors - EMBL Series," <u>Meth. Enzymology</u> , 153:103-115 (1987)		
<input type="checkbox"/> SK	Lehrach et al., "Hybridization Fingerprinting in Genome Mapping and Sequencing," <u>Genome Analysis Volume 1: Genetic and Physical Mapping</u> , Cold Spring Harbor Laboratory Press, pages 39-81 (1990).		
<input type="checkbox"/> SL	Levy, M.F., "Preparing Additive Printed Circuits," <u>IBM Tech. Discl. Bull.</u> , 9(11):1473 (1967)		
<input type="checkbox"/> SM	Lewin, Benjamin, eds., <u>Genes</u> , third edition, John Wiley & Sons, cover page, preface and table of contents, (1987).		
<input type="checkbox"/> SN	Lichter et al., "High-Resolution Mapping of Human Chromosome 11 by in Situ hybridization with Cosmid Clones," <u>Science</u> , 247:64-69 (1990)		
<input type="checkbox"/> SO	Lichter et al., "Fluorescence <i>in situ</i> hybridization with <i>Alu</i> and L1 polymerase chain reaction probes for rapid characterization of human chromosomes in hybrid cell lines," <u>PNAS</u> , 87:6634-6638 (1990)		
<input type="checkbox"/> SP	Lichter et al., "Rapid detection of human chromosome 21 aberrations by <i>in situ</i> hybridization," <u>PNAS</u> , 85:9664-9668 (1988)		
<input checked="" type="checkbox"/> SQ	Lichter et al., "Is non-isotopic <i>in situ</i> hybridization finally coming of age," <u>Nature</u> , 345:93-94 (1990)		

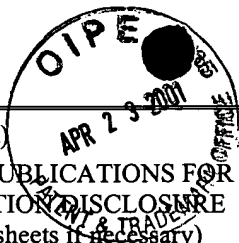


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<u>PP</u> SR	Lieberman et al., "A Light source Smaller Than the Optical Wavelength," <u>Science</u> , 247:59-61 (1990)		
SS	Lipshutz et al., "Using Oligonucleotide Probe Arrays To Access Genetic Diversity," <u>BioTech.</u> , 19(3):442-7 (1995)		
ST	Little, P., "Clone maps made simple," <u>Nature</u> , 346:611-612 (1990).		
SU	Liu et al., "Sequential Injection Analysis in Capillary Format with an Electroosmotic Pump," <u>Talanta</u> , 41(11):1903-1910 (1994)		
SV	Lockhart et al., "Expression monitoring by hybridization to high-density oligonucleotide arrays," <u>Nat. Biotech.</u> , 14:1675-1680 (1996)		
SW	Logue et al., "General Approaches to Mask Design for Binary Optics," <u>SPIE</u> , 1052:19-24 (1989)		
SX	Loken et al., "three-color Immunofluorescence Analysis of Leu Antigens on Human Peripheral Blood Using Two Lasers on a Fluorescence-Activated Cell Sorter," <u>Cytoetry</u> , 5:151-158 (1984)		
SY	Love et al., "Screening of λ Library for Differentially Expressed Genes Using <i>in Vitro</i> Transcripts," <u>Anal. Biochem.</u> , 150:429-441 (1985)		
SZ	Lowe, C.R., "Biosensors," <u>Trends in Biotech.</u> , 2:59-65 (1984)		
TA	Lowe, C.R., "An Introduction to the Concepts and Technology of Biosensors," <u>Biosensors</u> , 1:3-16 (1985)		
TB	Lowe, C. R., Biotechnology and Crop Improvement and Protection, BCPC Publications, pp. 131-138 (1986)		
TC	Lowe et al., "Solid-Phase Optoelectronic Biosensors," <u>Methods in Enzymology</u> , 137:338-347 (1988)		
TD	Lowe, C.R., "Biosensors," <u>Phil. Tran. R. Soc. Lond.</u> , 324:487-496 (1989)		
TE	Lu et al., "Differential screening of murine ascites cDNA libraries by means of <i>in vitro</i> transcripts of cell-cycle-phase-specific cDNA and digital image processing," <u>Gene</u> , 86:185-192 (1990)		
TF	Luo, J. et al., "Improving the fidelity of <i>Thermus thermophilus</i> DNA ligase," <u>Nuc.Acids Res.</u> , 24(14):3071-3078 (1996).		
TG	Lysov et al., "A new method for determining the DNA nucleotide sequence by hybridization with oligonucleotides," <u>Doklady Biochem.</u> , 303(1-6):436-438 (1989)		
TH	Lysov et al., "DNA Sequencing by Oligonucleotide Hybridization," First International Conference on Electrophoresis, Supercomputing and the Human Genome, 4/10-13/90 p.157		
TI	MacDonald et al., "A Rapid ELISA for Measuring Insulin in a Large Number of Research Samples," <u>Metabolism</u> , 38(5):450-452 (1989)		
TJ	Mairanovsky, V.G., "Electro-Deprotection- Electrochemical Removal of Protecting Groups**," <u>Agnew. Chem. Int. Ed. Engl.</u> , 15(5):281-292 (1976)		
TK	Manz et al., "Miniaturized Total Chemical Analysis Systems: a Novel Concept for Chemical Sensing," <u>Sensors and Actuators</u> , B1:244-248 (1990)		
TL	Manz et al., "Micromachining of monocrystalline silicon and glass for chemical analysis systems, A look into next century's technology or just a fashionable craze?," <u>Trends in Analytical Chem.</u> , 10(5):144-149 (1991)		
TM	Manz et al., "Planar chips technology for minaturization and integration of separation techniques into monitoring systems, Capillary electrophoresis on a chip," <u>J. Chromatography</u> , 593:253-258 (1992)		
TN	Manz et al., "Planar Chips Technology for Miniaturization of Separation Systems: A Developing Perspective in Chemical Monitoring," chapter 1, 1-64 (1993)		
TO	Manz et al., "Electroosmotic pumping and electrophoretic separations for minaturized chemical analysis systems," <u>J. Micromech. Microeng.</u> , 4:257-265 (1994)		
TP	Masiakowski et al., "Cloning of cDNA sequences of hormone-regulated genes from the MCF-7 human breast cancer cell line," <u>Nuc. Acids Res.</u> , 10(24):7895-7903 (1982)		
TQ	Matsumoto et al., "Preliminary Investigation of Micropumping Based on Electrical Control of Interfacial Tension," <u>IEEE</u> , pgs. 105-110 (1990)		
✓ TR	Matsuzawa et al., "Containment and growth of neuroblastoma cells on chemically patterned substrates," <u>J. Neurosci. Meth.</u> , 50:253-260 (1993)		

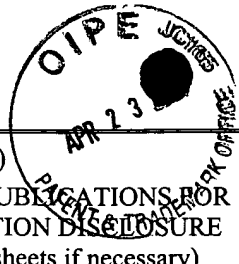


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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant: Pirrung et al.	
		Filing Date: September 1, 2000	Group: 1643
<u>pp</u> TS	Matthes et al., "Simultaneous rapid chemical synthesis of over one hundred oligonucleotides on a microscale," <u>EMBO J.</u> , 3(4):801-805 (1984).		
TT	McCray et al., "Properties and Uses of Photoreactive Caged Compounds," <u>Ann. Rev. Biophys. Biophys. Chem.</u> , 18:239-270 (1989)		
TU	McGall et al., "The Efficiency of Light-Directed Synthesis of DNA Arrays on Glass Substrates," <u>J. American Chem. Soc.</u> , 119(22):5081-5090 (1997)		
TV	McGillis, VLSI Technology, Sze, eds., Chapter 7, "Lithography," pp. 267-301 (1983)		
TW	McMurray, J.S., "Solid Phase Synthesis of a Cyclic Peptide Using Fmoc Chemistry," <u>Tetrahedron Letters</u> , 32(52):7679-7682 (1991)		
TX	Meinkoth et al., "Review: Hybridization of Nucleic Acids Immobilized on solid Supports," <u>Analytical Biochem.</u> , 138:267-284 (1984)		
TY	Melcher et al., "Traveling-Wave Bulk Electroconvection Induced across a Temperature Gradient," <u>Physics of Fluids</u> , 10(6):1178-1185 (1967)		
TZ	Merrifield, R.B., "Solid Phase peptide Synthesis. I. The Synthesis of a Tetrapeptide," <u>J. Am. Chem. Soc.</u> , 85:2149-2154 (1963)		
UA	Michiels et al., "Molecular approaches to genome analysis: a strategy for the construction of ordered overlapping clone libraries," <u>CABIOS</u> , 3(3):203-10 (1987)		
UB	Mirzabekov, A.D., "DNA sequencing by hybridization - a megasequencing method and a diagnostic tool?," <u>TIBTECH</u> , 12:27-32 (1994)		
UC	Miyada et al., "Oligonucleotide Hybridization Techniques," <u>Meth. Enzymology</u> , 154:94-107 (1987).		
UD	Monaco et al., "Human Genome Linking with Cosmids and Yeast Artificial Chromosomes", abstract from CSHS, pg. 50, (1989)		
UE	Morita et al., "Direct pattern fabrication on silicone resin by vapor phase electron beam polymerization," <u>J. Vac. Sci. Technol.</u> , B1(4):1171-1173 (1983)		
UF	Morrison et al., "Solution-Phase Detection of Polynucleotides Using Interacting Fluorescent Labels and Competitive Hybridization," <u>Anal. Biochem.</u> , 183:231-244 (1989)		
UG	Munegumi et al., "thermal Synthesis of Polypeptides from N-Boc-Amino Acid (Aspartic Acid, β -Aminoglutaric Acid) Anhydrides," <u>Chem. Letters</u> , pgs. 1643-1646 (1988)		
UH	Mutter et al., "Impact of Conformation on the Synthetic Strategies for Peptide Sequences," pgs. 217-228 from Chemistry of Peptides and Proteins, Vol. 1, Proceedings of the Third USSR-FRG Symp., in USSR (1982)		
UI	Nakamori et al., "A Simple and Useful Method for Simultaneous Screening of Elevated Levels of Expression of a Variety of Oncogenes in Malignant Cells," <u>Jpn. J. Cancer Res.</u> , 79:1311-1317 (1988)		
UJ	Nederlof et al., "Multiple Fluorescence In Situ Hybridization," <u>Cytometry</u> , 11:126-131 (1990)		
UK	Nederlof et al., "Three-Color Fluorescence In Situ Hybridization for the Simultaneous Detection of Multiple Nucleic Acid Sequences," <u>Cytometry</u> , 10:20-27 (1989).		
UL	Nizetic et al., "An improved bacterial colony lysis procedure enables direct DNA hybridisation using short (10, 11 bases) oligonucleotides to cosmids," <u>Nuc. Acids Res.</u> , 19(1):182 (1990).		
UM	Nizetic et al., "Construction, arraying, and high-density screening of large insert libraries of human chromosomes X and 21: their potential use as reference libraries," <u>PNAS</u> , 88:3233-3237 (1991).		
UN	Nyborg, W., "Acoustic Streaming," chapter 11 pgs. 265-329 from Physical Acoustics, Principles and Methods, Mason, eds., vol. II, part B, Academic Press, New York and London (1965)		
UO	Ocvirk et al., "High Performance Liquid Chromatography Partially Integrated onto a Silicon Chip," <u>Analyt. Meth. Instrumentation</u> , 2(2):74-82 (1995)		
UP	Ohtsuka et al., "Studies on transfer ribonucleic acids and related compounds. IX Ribonucleic oligonucleotide synthesis using a photosensitive 0-nitrobenzyl protection at the 2' -hydroxyl group," <u>Nuc. Acids Res.</u> , 1(10):1351-1357 (1974)		
UQ	Olefirowicz et al., "Capillary Electrophoresis for Sampling Single Nerve Cells," <u>Chimia</u> , 45(4):106-108 (1991)		

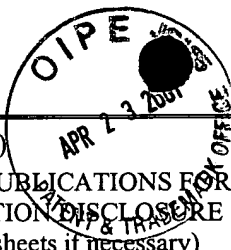
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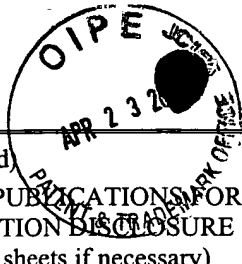
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UR	Olson et al., "Random-clone strategy for genomic restriction mapping in yeast," <u>PNAS</u> , 83:7826-7830 (1986).		
US	Patchornik et al., "Photosensitive Protecting Groups," <u>J. Am. Chem. Soc.</u> , 92(21):6333-6335 (1970)		
UT	Patent Abstracts of Japan from EPO, Abst. 13:557, JP 1-233 447 (1989)		
UU	Pease et al., "Light-generated oligonucleotide arrays for rapid DNA sequence analysis," <u>PNAS</u> , 91:5022-26 (1994)		
UV	Pevzner, P.A., "DNA Physical Mapping and Alternating Eulerian Cycles in Colored Grapes," <u>Algorithmica</u> , 13(1-2):77-105 (1995).		
UW	Pevzner et al., "Multiple Filtration and Approximate Pattern Matching," <u>Algorithmica</u> , 13(1-2):135-154 (1995).		
UX	Pevzner et al., "Generalized Sequence Alignment and Duality," <u>Adv. Applied Math.</u> , 14:139-171 (1993).		
UY	Pevzner, P.A., "1-Tuple DNA Sequencing: Computer Analysis," <u>J. Biomol. Struct. Dynam.</u> , 7(1):63-69 (1989)		
UZ	Pfahler et al., "Liquid Transport in Micron and Submicron Channels," <u>Sensors and Actuators</u> , A21-A23:431-4 (90)		
VA	Pfeifer et al., "Genomic Sequencing and Methylation Analysis by Ligation Mediated PCR," <u>Science</u> , 246:810-813 (1989).		
VB	Pidgeon et al., "Immobilized Artificial Membrane Chromatography: Supports Composed of Membrane Lipids," <u>Anal. Biochem.</u> , 176:36-47 (89)		
VC	Pillai, V.N., "Photoremovable Protecting Groups in Organic Synthesis," <u>Synthesis</u> , pgs. 1-26 (1980)		
VD	Pillai et al., "3-Nitro-4-Aminomethylbenzoylderivate von Polyethylenglykolen: Eine neue Klasse von Photosensitiven loslichen Polymeren Tragern zur Synthese von C-terminalen Peptidamiden," <u>Tetrah. Ltr.</u> , # 36 p. 3409-3412 (1979)		
VE	Pillai et al., "Synthetic Hydrophilic Polymers, Biomedical and Chemical Applications," <u>Naturwissenschaften</u> , 68:558-566 (1981)		
VF	Pirrung et al., "Proofing of Photolithographic DNA Synthesis with 3'.5'-Dimethoxybenzoinyloxycarbonyl-Protected Deoxynucleoside Phosphoramidites," <u>J. Org. Chem.</u> , 63(2):241-246 (1998)		
VG	Pirrung et al., "Comparison of Methods for Photochemical Phosphoramidite-Based DNA Synthesis," <u>J. Org. Chem.</u> , 60:6270-6276 (1995)		
VH	Ploax et al., "Cyclization of peptides on a solid support," <u>Int. J. Peptide Protein Research</u> , 29:162-169 (1987)		
VI	Polsky-Cynkin et al., "Use of DNA Immobilized on Plastic and Agarose Supports to Detect DNA by Sandwich Hybridization," <u>Clin. Chem.</u> , 31(9):1428-1443 (1985)		
VJ	Poustka et al., "Molecular Approaches to Mammalian Genetics," Cold Spring Harbor Symposia on Quantitive Biology, 51:131-139 (1986)		
VK	Purushothaman et al., "Synthesis of 4,5-diarylimidazoline-2-thiones and their photoconversion to bis(4,5-diarylimidazol-2-yl) sulphides," <u>Ind. J. Chem.</u> , 29B:18-21 (1990)		
VL	Quesada et al., "High-Sensitivity DNA Detection with a Laser-Exited Confocal Fluorescence Gel Scanner," <u>Biotechniques</u> , 10:616 (1991)		
VM	Reichmanis et al., <u>J. Polymer Sci. Polymer Chem. Edition</u> , 23:1-8 (1985)		
VN	Renz et al., "A colorimetric method for DNA hybridization," <u>Nuc. Acids Res.</u> , 12(8):3435-3445 (1984).		
VO	Richter et al., "An Electrohydrodynamic Micropump," <u>IEEE</u> , pgs. 99-104 (1990)		
VP	Richter et al., "Electrohydrodynamic Pumping and Flow Measurement," <u>IEEE</u> , pgs. 271-276 (1991)		
VQ	Richter et al., "A Micromachined electrohydrodynamic (EHD) pump," <u>Sensors and Actuators</u> , A29:159-168 (91)		
VR	Robertson et al., "A General and Efficient Route for Chemical Aminoacylation of Transfer RNAs," <u>J. Am. Chem. Soc.</u> , 113:2722-2729 (1991).		
VS	Rodda et al., "The Antibody Response to Myoglobin-I. Systematic Synthesis of Myoglobin Peptides Reveals Location and Substructure of Species-Dependent Continuous Antigenic Determinants," <u>Mol. Immunol.</u> , 23(6):603-610 (1986)		
VT	Rodgers, R.P., "Data Processing of Immunoassay Results," Manual of Clin. Lab. Immunol., 3rd ed., ch. 15, pgs. 82-87 (1986)		



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		Filing Date: September 1, 2000	Group: 1643
<u>pp</u> VU	Rose, D.J., "Free-solution reactor for post-column fluorescence detection in capillary zone electrophoresis," <u>J. Chromatography</u> , 540:343-353 (1991)		
VV	Rovero et al., "Synthesis of Cyclic Peptides on solid Support," <u>Tetrahed. Letters</u> , 32(23):2639-2642 (1991)		
VW	Sambrook, Molecular Cloning – A Laboratory Manual, publ. in 1989 (not included)		
VX	Saiki et al., "Genetic analysis of amplified DNA with immobilized sequence-specific oligonucleotide probes," <u>PNAS</u> , 86:6230-6234 (1989)		
VY	Saiki et al., "Analysis of enzymatically amplified β -globin and HLA-DQ α DNA with Allele-specific oligonucleotide probes," <u>Nature</u> , 324:163-166 (1986)		
VZ	Schafer et al., "DNA fingerprinting using non-radioactive oligonucleotide probes specific for simple repeats," <u>Nuc. Acids Res.</u> , 16(19):9344 (1988).		
WA	Scharf et al., "HLA class II allelic variation and susceptibility to pemphigus vulgaris," <u>PNAS</u> , 85(10):3504-3508 (1988)		
WB	Schena et al., "Parallel human genome analysis: Microarray-based expression monitoring of 1000 genes," <u>PNAS</u> , 93:10614-10619 (1996).		
WC	Schuup et al., "Mechanistic Studies of the Photorearrangement of o-Nitrobenzyl Esters," <u>J. Photochem.</u> , 36:85-97 (1987)		
WD	Seed, B., "Diazotizable arylamine cellulose papers for the coupling and hybridization of nucleic acids," <u>Nuc. Acids Res.</u> , 10(5):1799-1810 (1982).		
WE	Seiler et al., "Planar Glass Chips for Capillary Electrophoresis: Repetitive Sample Injection, Quantitation, and Separation Efficiency," <u>Anal. Chem.</u> , 65:1481-1488 (1993)		
WF	Seller et al., "Electroosmotic Pumping and Valveless Control of Fluid Flow within a Manifold of Capillaries on a Glass Chip," <u>Anal. Chem.</u> , 66:3485-3491 (1994)		
WG	Sammelhack et al., "Selective Removal of Protecting Groups Using Controlled Potential Electrolysis," <u>J. Am. Chem. Society</u> , 94(14):5139-5140 (1972)		
WH	Sheldon et al., "Matrix DNA Hybridization," <u>Clinical Chemistry</u> , 39(4):718-719 (1993)		
WI	Shin et al., "Dehydrooligonopeptides. XI. Facile Synthesis of Various Kinds of Dehydrodi- and tripeptides, and Dehydroenkephalins Containing Tyr Residue by Using N-Carboxydehydrotyrosine Anhydride," <u>Bull. Chem. Soc. Jpn.</u> , 62:1127-1135 (1989)		
WJ	Sim et al., "Use of a cDNA Library for Studies on Evolution and Developmental Expression of the Chorion Multigene Families," <u>Cell</u> , 18:1303-1316 (1979)		
WK	Smith et al., "A Novel Method for Delineating Antigenic Determinants: Peptide Synthesis and Radioimmunoassay Using the Same Solid Support," <u>Immunochemistry</u> , 14:565-568 (1977)		
WL	Sofia, M.J., "Carbohydrate-based combinatorial libraries," <u>Molecular Diversity</u> , 3:75-94 (1998).		
WM	Southern et al., "Report on the Sequencing by Hybridization Workshop," <u>Genomics</u> , 13:1378-1383 (1992)		
WN	Southern et al., "Oligonucleotide hybridisations on glass supports: a novel linker for oligonucleotide synthesis and hybridization properties of oligonucleotides synthesized <i>in situ</i> ," <u>Nuc. Acids Res.</u> , 20(7):1679-1684 (1992)		
WO	Southern et al., "Analyzing and Comparing Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides: Evaluation Using Experimental Models," <u>Genomics</u> , 13:1008-10017 (1992).		
WP	Southern, E.M., "Detection of Specific Sequences Among DNA Fragments Separated by Gel Electrophoresis," <u>J. Mol. Biol.</u> , 98:503-517 (1975).		
WQ	Stemme et al., "A valveless diffuser/nozzle-based fluid pump," <u>Sensors and Actuators</u> , A39:159-167 (1993)		
WR	Stryer, L., "DNA Probes and Genes Can be Synthesized by Automated Solid-Phase Methods," from <u>Biochemistry</u> , Third Edition, published by W.H. Freeman & Co., (1988)		
WS	Stuber et al., "Synthesis and photolytic cleavage of bovine insulin B22-30 on a nitrobenzoylglycyl-poly (ethylene glycol) support," <u>Int. J. Peptide Protein Res.</u> , 22(3):277-283 (1984)		
WT	Sundberg et al., "Spatially-Addressable Immobilization of Macromolecules on Solid Supports," <u>J. Am. Chem. Soc.</u> , 117(49):12050-12057 (1995)		



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<input checked="" type="checkbox"/> WU	Swedberg, S.A., "Use of non-ionic and zwitterionic surfactants to enhance selectivity in high-performance capillary electrophoresis, An apparent micellar electrokinetic capillary chromatography mechanism," <u>J. Chromatography</u> , 503:449-452 (1990)		
<input type="checkbox"/> WV	Thomas, P.S., "Hybridization of denatured RNA and small DNA fragments transferred to nitrocellulose," <u>PNAS</u> , 77(9):5201-5205 (1980).		
<input type="checkbox"/> WW	Titus et al., "Texas Red, a Hydrophilic, red-emitting fluorophore for use with fluorescein in dual parameter flow microfluorometric and fluorescence microscopic studies," <u>J. Immunol. Meth.</u> , 50:193-204 (1982)		
<input type="checkbox"/> WX	Tkachuk et al., "Detection of <i>bcr-abl</i> Fusion in chronic Myelogenous Leukemia by in situ Hybridization," <u>Science</u> , 250:559-562 (90)		
<input type="checkbox"/> WY	Trzeciak et al., "Synthesis of 'Head-to-Tail' Cyclized Peptides on Solid Support by Fmoc Chemistry," <u>Tetrahed. Letters</u> , 33(32):4557-4560 (1992)		
<input type="checkbox"/> WZ	Tsien et al., "Control of Cytoplasmic Calcium with Photolabile Tetracarboxylate 2-Nitrobenzhydryl Chelators," <u>Biophys. J.</u> , 50:843-853 (1986)		
<input type="checkbox"/> XA	Tsutsumi et al., "Expression of L- and M- Type Pyruvate Kinase in Human Tissues," <u>Genomics</u> , 2:86-89 (1988)		
<input type="checkbox"/> XB	Turchinskii et al., "Multiple Hybridization in Genome Analysis, Reaction of Diamines and Bisulfate with Cytosine for Introduction of Nonradioactive labels Into DNA," <u>Molecular Biology</u> , 22:1229-1235 (1988)		
<input type="checkbox"/> XC	Turner et al., "Photochemical Activation of Acylated α -Thrombin," <u>J. Am. Chem. Soc.</u> , 109:1274-1275 (1987)		
<input type="checkbox"/> XD	Urdea et al., "A novel method for the rapid detection of specific nucleotide sequences in crude biological samples without blotting or radioactivity; application to the analysis of hepatitis B virus in human serum," <u>Gene</u> , 61:253-264 (1987)		
<input type="checkbox"/> XE	Urdea et al., "A comparison of non-radioisotopic hybridization assay methods using fluorescent, chemiluminescent and enzyme labeled synthetic oligodeoxyribonucleotide probes," <u>Nuc. Acids Res.</u> , 16(11):4937-4956 (1988)		
<input type="checkbox"/> XF	Van der Voort et al., "Design and Use of a Computer Controlled Confocal Microscope for Biological Applications," <u>Scanning</u> , 7(2):66-78 (1985)		
<input type="checkbox"/> XG	Van Hijfte et al., "Intramolecular 1,3-Diyl Trapping Reactions. A Formal Total Synthesis of -Coriolin," <u>J. Organic Chemistry</u> , 50:3942-3944 (1985)		
<input type="checkbox"/> XH	Veldkamp, W.B., "Binary optics: the optics technology of the 1990s," <u>CLEO 90</u> , Vol. 7, paper # CMG6 (1990)		
<input type="checkbox"/> XI	Verlaan-de Vries et al., "A dot-blot screening procedure for mutated <i>ras</i> oncogenes using synthetic oligodeoxynucleotides," <u>Gene</u> , 50:313-320 (1986)		
<input type="checkbox"/> XJ	Verpoorte et al., "Three-dimensional micro flow manifolds for miniaturized chemical analysis systems," <u>J. Micromech. Microeng.</u> , 4:246-256 (1994)		
<input type="checkbox"/> XK	Volkmut et al., "DNA electrophoresis in microlithographic arrays," <u>Nature</u> , 358:600-602 (1992)		
<input type="checkbox"/> XL	Voss et al., "The immobilization of oligonucleotides and their hybridization properties," <u>Biochem. Soc. Transact.</u> , 16:216-217 (1988)		
<input type="checkbox"/> XM	Wada, A., <i>International Workshop on Automatic and High Speed DNA Base Sequencing</i> , Hayashibara Forum 1987 at Hayashibara Biochemical Laboratories, Okayama, Japan, July 7-9, 1987.		
<input type="checkbox"/> XN	Walker et al., "Photolabile Protecting Groups for an Acetylcholine Receptor Ligand. Synthesis and Photochemistry of a New Class of o-Nitrobenzyl Derivatives and their Effects on Receptor Function," <u>Biochemistry</u> , 25:1799-1805 (1986)		
<input type="checkbox"/> XO	Wallace et al., "The use of synthetic oligonucleotides as hybridization probes. II. Hybridization of oligonucleotides of mixed sequence to rabbit β -globin DNA," <u>Nuc. Acids Res.</u> , 9(4):879 (1981).		
<input type="checkbox"/> XP	Wallace et al., "Hybridization of synthetic oligodeoxyribonucleotides to $\Phi\chi$ 174 DNA: the effect of single base pair mismatch," <u>Nuc. Acids Res.</u> , 11(6):3543-3557 (1979)		
<input type="checkbox"/> XQ	Washizu et al., "Handling Biological Cells Using a Fluid Integrated Circuit," <u>IEEE Transactions Industry Applications</u> , 26(2):352-358 (1990)		
<input checked="" type="checkbox"/> XR	Wiedmann, M. et al., "Ligase Chain Reaction (LCR) - Overview and Applications," <u>PCR Meth. Appl.</u> , 3(4):S51-S64 (1994).		



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<input checked="" type="checkbox"/> XS	Werner et al., "Size-Dependent Separation of Proteins Denatured in SDS by Capillary Electrophoresis Using a Replaceable Sieving Matrix," <u>Anal. Biochem.</u> , 212:253-258 (1993)		
<input type="checkbox"/> XT	White et al., "An Evaluation of Confocal Versus Conventional Imaging of Biological Structures by Fluorescence Light Microscopy," <u>J. Cell Biol.</u> , 105(1):41-48 (1987)		
<input type="checkbox"/> XU	Widacki et al., "Biochemical Differences in Qa-2 Antigens Expressed by Qa-2+,6+ and Qa-2a+,6- Strains. Evidence for Differential Expression of the Q7 and Q9 Genes," <u>Mol. Immunology</u> , 27(6):559-570 (1990)		
<input type="checkbox"/> XV	Wilcox et al., "Synthesis of Photolabile 'Precursors' of Amino Acid Neurotransmitters," <u>J. Org. Chem.</u> , 55:1585-1589 (1990)		
<input type="checkbox"/> XW	Wilding et al., "PCR in a Silicon Microstructure," <u>Clin. Chem.</u> , 40(9):1815-1818 (1994)		
<input type="checkbox"/> XX	Wilding et al., "Manipulation and Flow of Biological Fluids in Straight Channels Micromachined in Silicon," <u>Clin. Chem.</u> , 40(1):43-47 (1994)		
<input type="checkbox"/> XY	Wittman-Liebold, eds., Methods in Protein Sequence Analysis, from Proceedings of 7th Int'l Conf., Berlin, Germany, 7/3-8/88, table of contents, pp. xi-xx* (1989)		
<input type="checkbox"/> XZ	Wood et al., "Base composition-independent hybridization in tetramethylammonium chloride: A method for oligonucleotide screening of highly complex gene libraries," <u>PNAS</u> , 82:1585-1588 (1985).		
<input type="checkbox"/> YA	Woolley et al., "Ultra-high-speed DNA fragment separations using microfabricated capillary array electrophoresis chips," <u>PNAS</u> , 91:11348-11352 (1994)		
<input type="checkbox"/> YB	Wu et al., "Synthesis and Properties of Adenosine-5'-triphospho- γ -5-(5-sulfonic acid)naphthyl Ethylamidate: A Fluorescent Nucleotide Substrate for DNA-Dependent RNA Polymerase from <i>Escherichia coli</i> ," <u>Arch. Biochem. Biophys.</u> , 246(2):564-571 (1986)		
<input type="checkbox"/> YC	Wu et al., "Laboratory Methods, Direct Analysis of Single Nucleotide Variation in Human DNA and RNA Using <i>In Situ</i> Dot Hybridization," <u>DNA</u> , 8(2):135-142 (1989)		
<input type="checkbox"/> YD	Yamamoto et al., "Features and applications of the laser scanning microscope," <u>J. Mod. Optics</u> , 37(11):1691-1701 (1990)		
<input type="checkbox"/> YE	Yarbrough et al., "Synthesis and Properties of Fluorescent Nucleotide Substrates for DNA-dependent RNA Polymerases," <u>J. Biol. Chem.</u> , 254(23):12069-12073 (1979)		
<input type="checkbox"/> YF	Yosomiya et al., "Performance, Glass fiber Having Isocyanate Group on the Surface. Preparation and Reaction with Amino Acid," <u>Polymer Bulletin</u> , 12:41-48 (1984)		
<input type="checkbox"/> YG	Young, W.S., "Simultaneous Use of Digoxigenin- and Radiolabeled Oligodeoxyribonucleotide Probes for Hybridization Histochemistry," <u>Neuropeptides</u> , 13:271-275 (1989)		
<input type="checkbox"/> YH	Yue et al., "Miniature Field-Flow Fractionation System for Analysis of Blood Cells," <u>Clin. Chem.</u> , 40(9):1810-1814 (1994)		
<input type="checkbox"/> YI	Zehavi et al., "Light-Sensitive Glycosides. I. 6-Nitroveratryl β -D-Glucopyranoside and 2-Nitrobenzyl β -D-Glucopyranoside," <u>J. Org. Chem.</u> , 37(14):2281-2285 (1972)		
<input type="checkbox"/> YJ	Zengerle et al., "Transient measurements on miniaturized diaphragm pumps in microfluid systems," <u>Sensors and Actuators</u> , A46-47:557-561 (1995)		
<input checked="" type="checkbox"/> YK	Zischler et al., "Non-radioactive oligonucleotide fingerprinting in the gel," <u>Nuc. Acids Res.</u> , 17(11):4411 (1989).		
<input checked="" type="checkbox"/> YL	Zischler et al., "Digoxigenated oligonucleotide probes specific for simple repeats in DAN fingerprinting and hybridization in situ," <u>Hum. Genet.</u> , 82:227-233 (1989).		
EXAMINER <u>P. Pennakun</u> DATE CONSIDERED <u>7/31/03</u>			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PTO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION IN AN APPLICATION August 1, 2002 (Use several sheets if necessary)	ATTORNEY DOCKET NO. 2719.2004-000 (18547-043220 US) APPLICATION NO. 09/653,761 APPLICANT Stephen P.A. Fodor, et al. FILING DATE September 1, 2000
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GROUP 1643	

U.S. PATENT DOCUMENTS

EXA M- NER INI- TIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
PP	AB	6,225,625 B1	01-May-01	Pirrung, et al.	250	302
PP	AC	6,261,776 B1	07-Jul-01	Pirrung, et al.	435	6
PP	AD	6,291,183 B1	18-Sep-01	Pirrung, et al.	435	6

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
PP AP 0 046 430	24 Feb 1982	EPO			yes
PP AQ 0 266 881	11 May 1988	EPO			yes
PP AL2 DE 40 13 588 A1	14 Nov 1991	Germany			Abstract
PP AM2 DT 26 12 359 A1	29 Sep 1977	Germany			abstract
PP AN2 2-116735	01 May 1990	Japan			Abstract

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER <i>P. Ponnarri</i>	DATE CONSIDERED 7/31/03
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